

PJM Winter Outlook

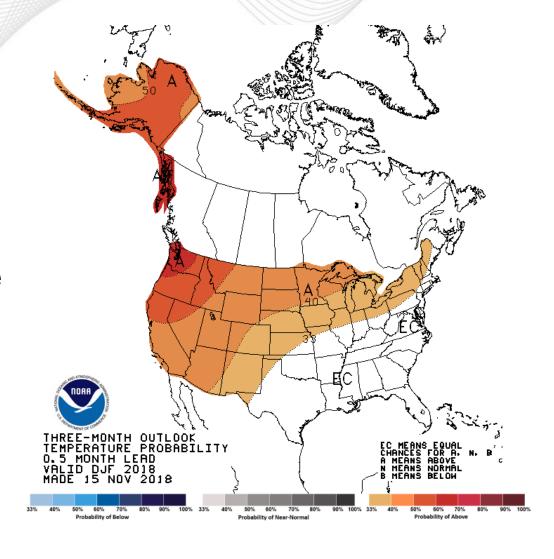
Illinois Commerce Commission 2018/19 Winter Preparedness Policy Session November 26, 2018

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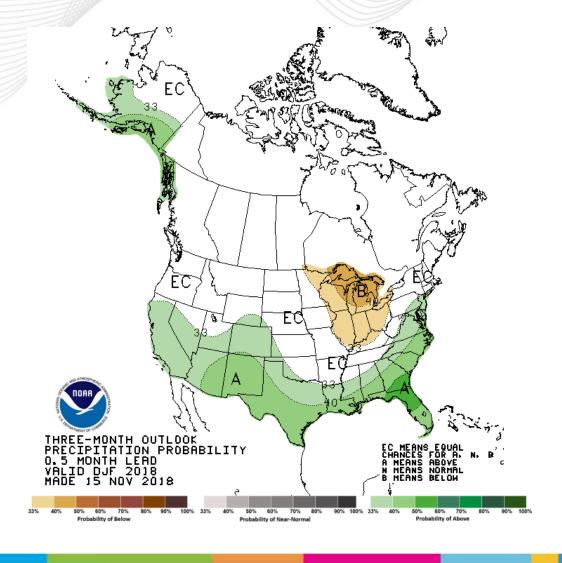


- Disagreement between seasonal forecasting methodologies lends a degree of uncertainty to this winter's forecast
 - Climate models warmer
 - Analog years near to below average temps
- Polar Vortex may weaken later in the season
 - Leads to short periods of arctic cold
 - Could result in an overall colder than average season





- Projected weak El Niño will shift storm track south
 - Could reduce precipitation in most of PJM footprint, but increase chance of coastal storms





50/50 Non-diversified Peak Load Base Case	
LAS Load Forecast	135,506 MW
Preliminary RTO Net Interchange	4,400 MW** (Importing)
PJM RTO Installed Capacity	185,611 MW
Discrete Generator Outages	15,722 MW

^{** 4,400} MW of net interchange is modeled in the OATF base case and accounted for in the total RTO installed capacity



- No reliability issues identified for base case and N-1 analysis.
- Off-cost generation re-dispatch and switching required to control local thermal or voltage violations in some areas.
- All networked transmission voltage violations were controlled by capacitors.



2018-19 Winter OATF Study

Sensitivity Studies	Impact
External contingencies that could impact PJM reliability	No reliability concerns
N-1-1 Relay trip conditions	 No cascading outage concerns identified Majority of the overloads created by radial load, only controlling action is post-contingency load dump All networked transmission overloads were controlled pre-contingency
Max-Cred Contingency Analysis	No reliability concerns
Transfer Interface Analysis	No reliability concerns
BGE/PEPCO Import Capability	No reliability concerns
90/10 Load Forecast study (138,515 MW)	No uncontrollable or unexpected issues observed at the elevated load levels.
2015 "Polar Vortex" Peak (143,338 MW)	No uncontrollable or unexpected issues observed at the elevated load levels.
Gas Pipeline Disruption Study	No reliability concerns

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Cold Weather Preparations

Action Required

- Verify generator reactive capability in eDART
- Complete Seasonal Fuel & Emissions Survey in eDART
- Develop PJM list of units to participate in Cold Weather Exercise
- Complete Cold Weather Checklist in eDART

Status

Complete

Complete

Complete

12/15/18